#782

SAN MARCO D/L

DRAG BALANCE INSTRUMENT

88-026A-01B

SAN MARCO D/L

DRAG BALANCE INSTRUMENT (DBI)

88-026A-01B

THIS DATA SET CONSISTS OF 13 DISKETTES. THE FIRST DISK IN THE DATA
SET CONTAINS THE PI-PROVIDED FORTRAN PROGRAMS TO CALCULATE ORBITAL
PARAMETER FOR THE NORAD ORBITAL ELEMENTS; THE NORAD ELEMENTS FILE IS
INCLUDED ON THE DISKETTE. IN ADDITION THE DISKETTE CONTAINS A README
FILE THAT EXPLAINS THE DIFFERENT DATA FILES AND THEIR FORMAT. THE
REMAINDER OF THE DISKETTES CONTAIN THE DRAG BALANCE INSTRUMENT (DBI).
THE KF NUMBERS FOLLOW:

KF#	FILES
KF000092	4
KF000093	214
KF000094	213
KF000095	205
KF000096	210
KF000097	53
KF000098	27
KF000099	55
KF000100	42
KF000101	38
KF000102	45
KF000103	25
KF000104	24

San Marco D/L ---- Drag Balance Instrument (DBI) --- 1-s Data

README FILE

The filename convention for the files on these diskettes is as follows:

       nnXXXXmm.pp

       nn=TA   tape recorded data; 1st measurement period
                during orbit XXXX
         =TB   tape recorded data; 2nd measurement period
         ..   ....
         =TH   tape-recorded data; 7th measurement
         =TX   all later meas. periods during orbit XXXX
         =PS   real-time data

       XXXX= orbit number

       mm=R1   data up to the 1st data gap within a specific measurement
period; if there are no data gaps than this is the only file
         =R2   data from the 1st data gap up to the second data gap
        ...   .

       pp=D1   files with orbit and instrument status information
         =D2   data files with time and the measured total density

The time in the data files is given relative to the beginning of
the specific measurement period. To get the actual time and date one has to
retrieve the start time from the corresponding D1 file. Date and time are
given as an integer array IT(6) with six elements (yy,mm,dd,hh,mm,ss).

IT(6) can than be used with subroutine ULPAOR to initialize the COMMON/ORB/
and than also in subroutine NOI to compute the required orbit
parameters. The first call to NOI should be with IFLAG=1 to
initialize the program. The recommended orbit generator is SGP4
(IEPT=2). Please do not forget to also assign the parameter
values for the constants in COMMON /CONST/ (REQ=6378.1).

In addition to time and density each data record also includes a
quality mark:
       *   density data lack
       **   noise transition
       ***   bias irregular (hole)

.

A	809 KB	4F
1	1.386 mB	214F
2	1.32 mB	213F
3	1.31 mB	205F
4	1.32 mB	210F
5	357 KB	53F
6	412	
7	1414	
8	1427	
9	1433	
10	1418	
11	1384	
12	1427	

161705
36737
1745
8937